Oceanographers*
in San Diego-Chula Vista-Carlsbad, CA

*Job titles used in government data sources are slightly different from the one you've chosen. This report uses data from the closest matching official classifications (listed below) as a proxy for Oceanographers data.

Environmental Scientists and Specialists, Including Health

Contents

What is Lightcast Data?

Lightcast data is a hybrid dataset derived from official government sources such as the US Census Bureau, Bureau of Economic Analysis, and Bureau of Labor Statistics. Leveraging the unique strengths of each source, our data modeling team creates an authoritative dataset that captures more than 99% of all workers in the United States. This core offering is then enriched with data from online social profiles, resumés, and job postings to give you a complete view of the workforce.

Lightcast data is frequently cited in major publications such as *The Atlantic*, *Forbes*, *Harvard Business Review*, *The New York Times*, *The Wall Street Journal*, and *USA Today*.

Report Parameters

1 Occupation

Environmental Scientists and Specialists, Including Health

1 MSA

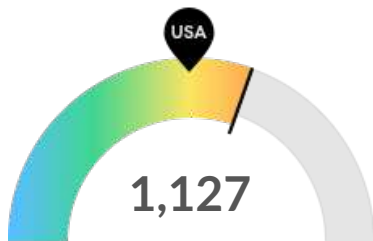41740   San Diego-Chula Vista-Carlsbad, CA

Class of Worker

QCEW Employees

The information in this report pertains to the chosen occupation and geographical area.
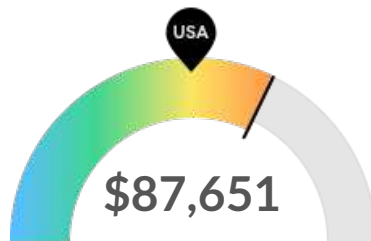
Executive Summary

## Aggressive Job Posting Demand Over a Deep Supply of Regional Jobs

1,127	**$87,651**	**39**
Jobs (2023)	**Compensation**	**Job Posting Demand**

San Diego-Chula Vista-Carlsbad, CA is a hotspot for this kind of job. The national average for an area this size is 833* employees, while there are 1,127 here.

Earnings are high in San Diego-Chula Vista-Carlsbad, CA. The national median salary for Oceanographers is $78,978, compared to $87,651 here.
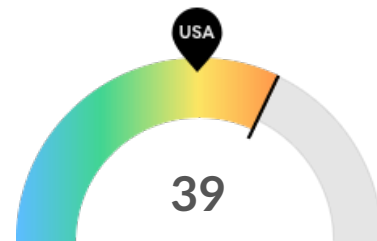
Job posting activity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 26* job postings/mo, while there are 39 here.

*National average values are derived by taking the national value for Oceanographers and scaling it down to account for the difference in overall workforce size between the nation and San Diego-Chula Vista-Carlsbad, CA. In other words, the values represent the national average adjusted for region size.

Jobs

## Regional Employment Is Higher Than the National Average

An average area of this size typically has 833* jobs, while there are 1,127 here. This higher than average supply of jobs may make it easier for workers in this field to find employment in your area.
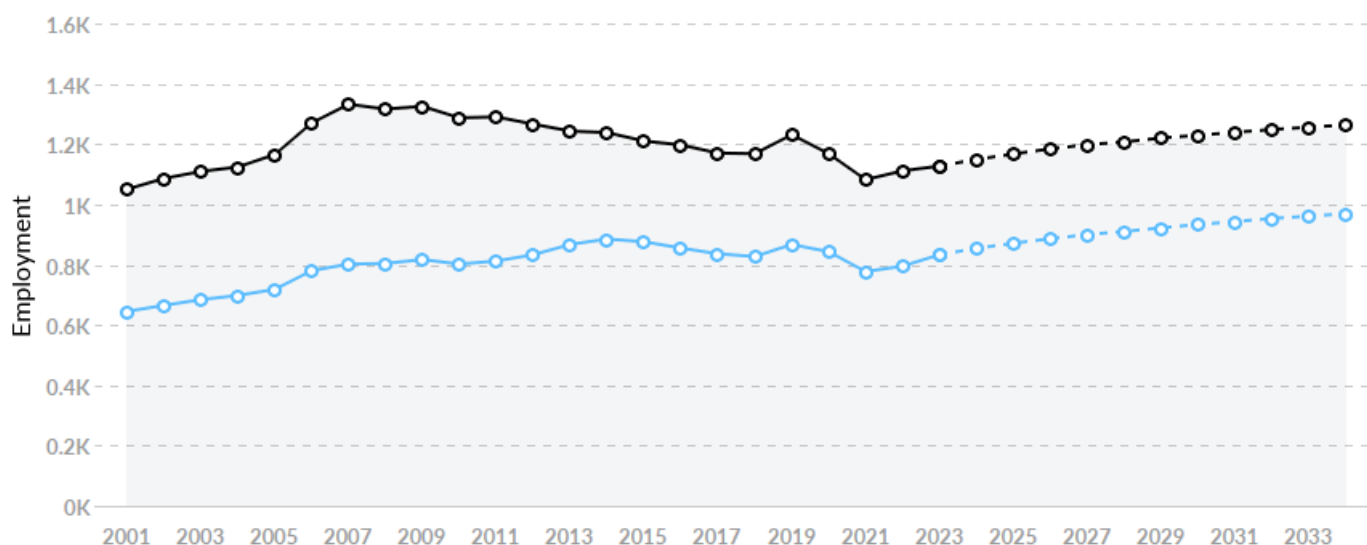
|	Region	2023 Jobs	2024 Jobs	Change	% Change
●	San Diego-Chula Vista-Carlsbad, CA	1,127	1,149	22	2.0%
●	National Average	833	854	20	2.4%

*National average values are derived by taking the national value for Oceanographers and scaling it down to account for the difference in overall workforce size between the nation and San Diego-Chula Vista-Carlsbad, CA. In other words, the values represent the national average adjusted for region size.

Regional Breakdown
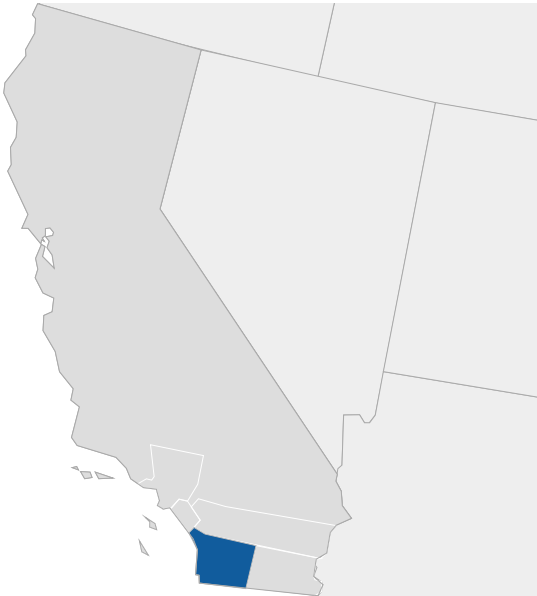
County	2023 Jobs
San Diego County, CA	1,127

Most Jobs are Found in the Management, Scientific, and Technical Consulting Services Industry Sector
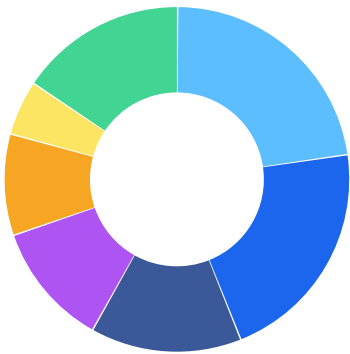
Industry	% of Occupation in Industry (2023)
🔵 Management, Scientific, and Technical Consulting Services	22.6%
🔵 Architectural, Engineering, and Related Services	21.3%
🔵 Local Government, Excluding Education and Hospitals	14.2%
🟣 Scientific Research and Development Services	11.6%
🟠 Federal Government, Civilian	9.5%
🟡 State Government, Excluding Education and Hospitals	5.2%
🟢 Other	15.7%

Compensation

Regional Compensation Is 11% Higher Than National Compensation

For Oceanographers, the 2023 median wage in San Diego-Chula Vista-Carlsbad, CA is $87,651, while the national median wage is $78,978.
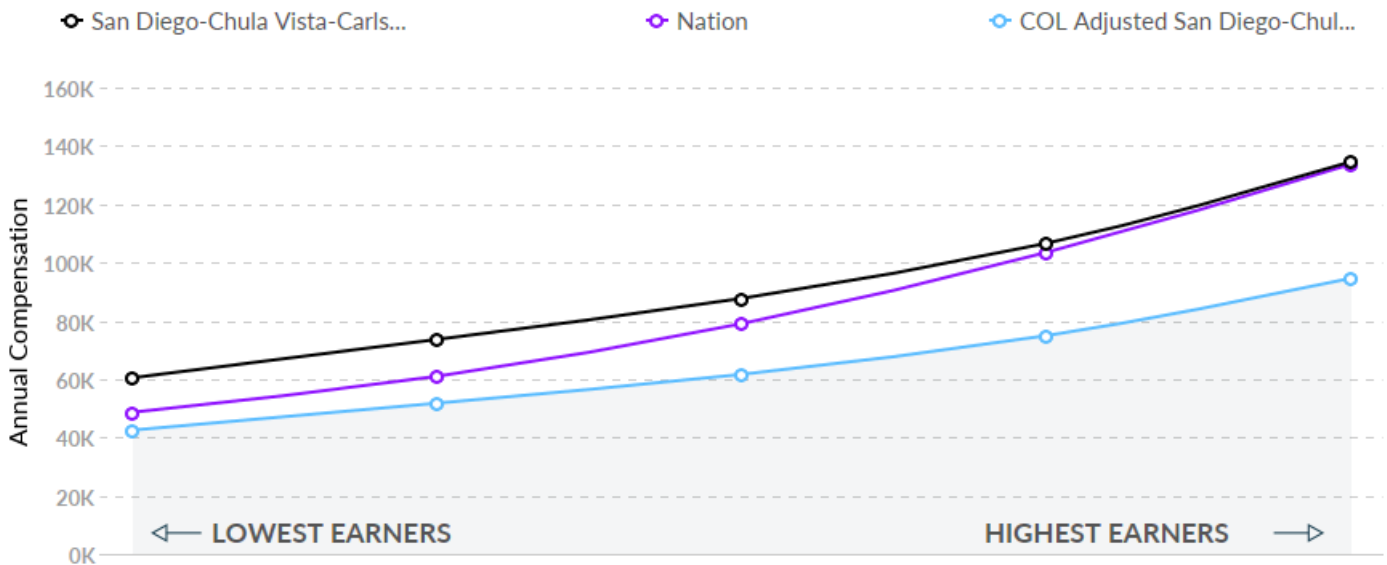
Job Posting Activity

695 Unique Job Postings

The number of unique postings for this job from Jan 2023 to Jun 2024.

210 Employers Competing

All employers in the region who posted for this job from Jan 2023 to Jun 2024.

26 Day Median Duration

Posting duration is 2 days shorter than what's typical in the region.
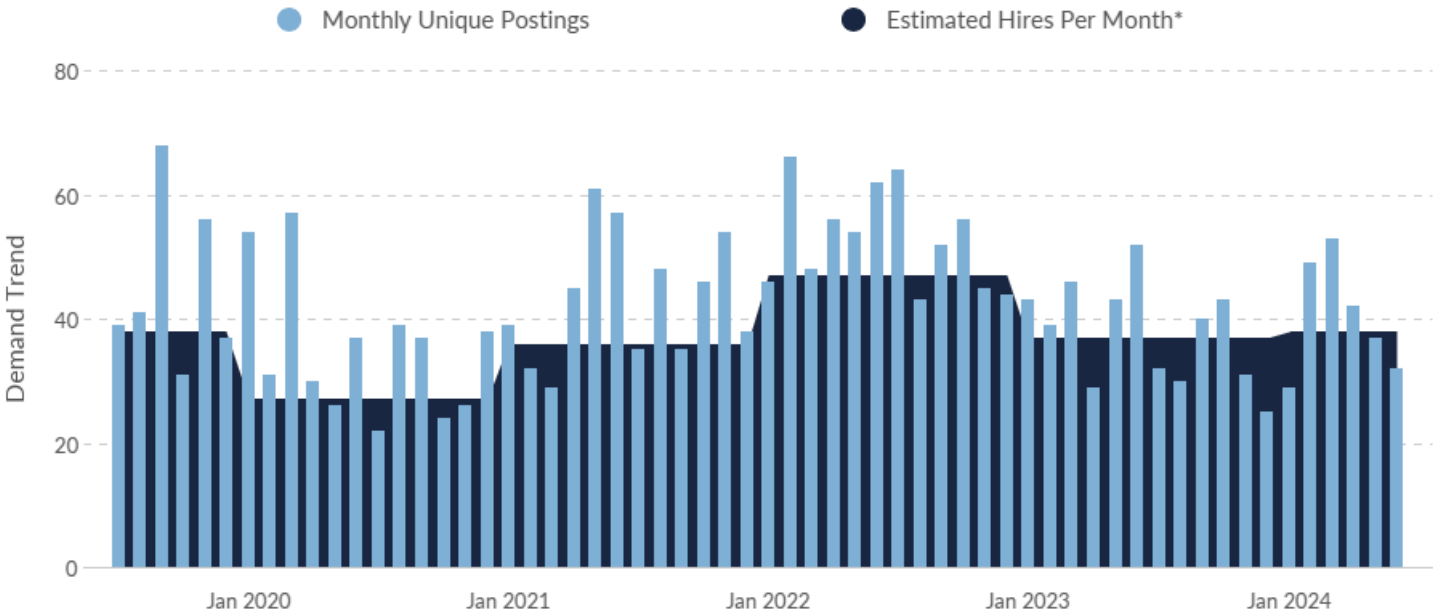
Occupation	Avg Monthly Postings (Jan 2023 - Jun 2024)	Avg Monthly Hires (Jan 2023 - Jun 2024)
Environmental Scientists and Specialists, Including Health	39	37

*A hire is reported by the Quarterly Workforce Indicators when an individual's Social Security Number appears on a company's payroll and was not there the quarter before. Lightcast hires are calculated using a combination of Lightcast jobs data, information on separation rates from the Bureau of Labor Statistics (BLS), and industry-based hires data from the Census Bureau.

Top Companies	Unique Postings		Top Job Titles	Unique Postings	
Kaiser Permanente	37		Environmental Specialists	86	
WSP Global	37		Environmental Planners	85	
University of California	27		Environmental Scientists	77	
AECOM	21		Environmental Planners/Project...	27	
County Of San Diego	20		Land Use/Environmental Planne...	18	
Actalent	19		Manufacturing Scientists	16	
Eurofins	18		Environmental Scientists/Geolo...	14	
ICF International	15		Environmental Engineers/Scient...	12	
Rincon Consultants	14		Scientists	12	
State of California	14		Project Scientists	11	

Top Distinguishing Skills by Demand

An occupation's Distinguishing Skills are the advanced skills that are called for occasionally. An employee with these skills is likely more specialized and able to differentiate themselves from others in the same role.
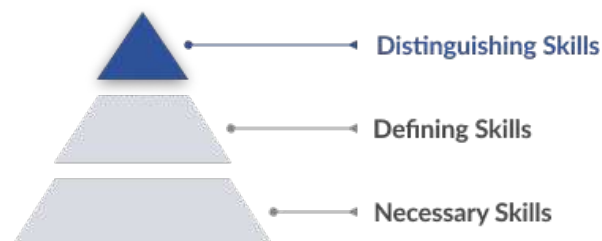
Distinguishing Skills

Defining Skills

Necessary Skills

Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
California Environmental Quality Act (CEQA)	✖	151	+4.7%	Stable
Environmental Studies	✖	93	+18.8%	Growing
Air Quality	✖	63	+8.2%	Stable
Clean Water Act	✔	47	+19.9%	Rapidly Growing
Natural Resource Management	✖	46	+9.9%	Growing
Water Quality	✖	43	+6.2%	Stable
Environmental Impact Assessments	✔	36	+23.4%	Rapidly Growing
Endangered Species Act	✖	34	+5.2%	Stable
Pollution Prevention	✔	31	+8.6%	Growing
Environmental Impact Statements	✔	25	+19.2%	Growing

Top Defining Skills by Demand

An occupation's Defining Skills represent the day-to-day tasks and responsibilities of the job. An employee needs these skills to qualify for and perform successfully in this occupation.
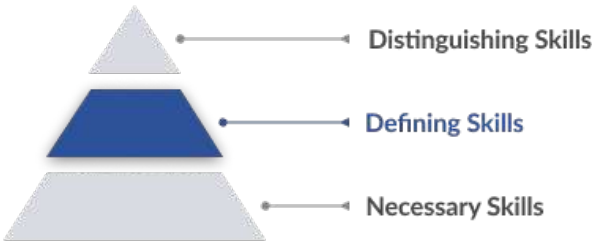
Distinguishing Skills
Defining Skills
Necessary Skills

Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Environmental Science	✅	295	+19.6%	Rapidly Growing
Project Management	✅	225	+19.8%	Rapidly Growing
Biology	❌	219	+25.7%	Rapidly Growing
Valid Driver's License	❌	147	+7.5%	Stable
Environmental Planning	❌	130	+19.6%	Rapidly Growing
Ecology	❌	77	+13.3%	Growing
National Environmental Policy Act	❌	75	+22.8%	Rapidly Growing
Field Research	❌	66	+15.5%	Growing
Geology	❌	61	+8.1%	Stable
Sampling (Statistics)	❌	61	+12.6%	Growing

Lightcast

Top Necessary Skills by Demand

An occupation's Necessary Skills are the specialized skills required for that job and relevant across other similar jobs. An employee needs these skills as building blocks to perform the more complex Defining Skills.
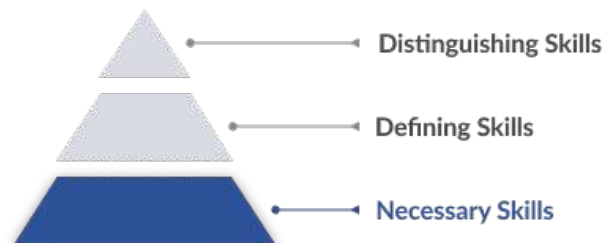
Distinguishing Skills

Defining Skills

Necessary Skills

Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Environmental Laws	❌	110	+8.5%	Stable
Stormwater Management	❌	103	+26.1%	Rapidly Growing
Chemistry	❌	95	+18.2%	Growing
Environmental Compliance	❌	90	+16.3%	Growing
Data Analysis	❌	84	+25.8%	Rapidly Growing
Technical Writing	❌	74	+13.1%	Growing
Geographic Information Systems	❌	73	+10.8%	Growing
Data Collection	❌	73	+29.9%	Rapidly Growing
Regulatory Compliance	❌	60	+18.6%	Growing
Soil Science	❌	57	+13.3%	Growing

Demographics

Retirement Risk Is About Average, While Overall Diversity Is High
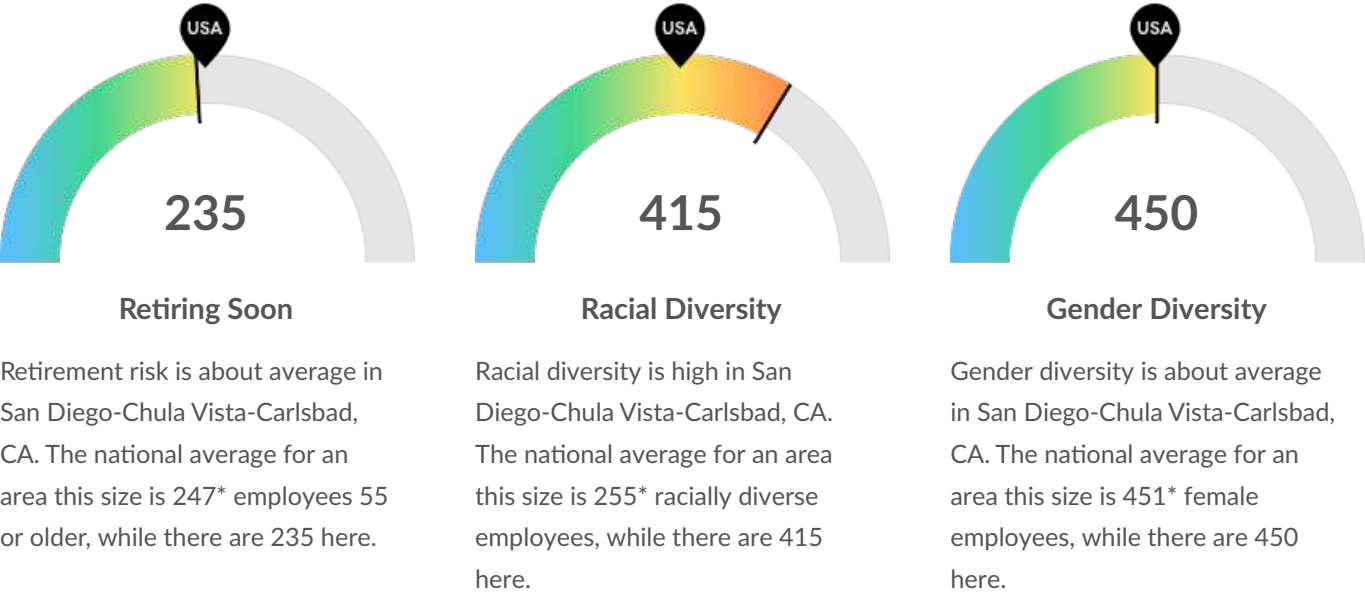
235
Retiring Soon

Retirement risk is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 247* employees 55 or older, while there are 235 here.

415
Racial Diversity

Racial diversity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 255* racially diverse employees, while there are 415 here.

450
Gender Diversity

Gender diversity is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 451* female employees, while there are 450 here.
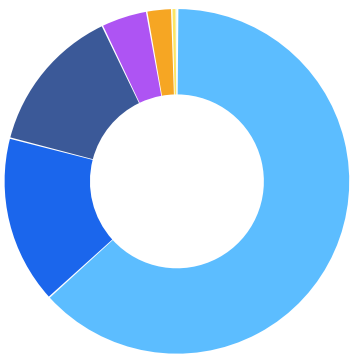
*National average values are derived by taking the national value for Oceanographers and scaling it down to account for the difference in overall workforce size between the nation and San Diego-Chula Vista-Carlsbad, CA. In other words, the values represent the national average adjusted for region size.

Occupation Age Breakdown

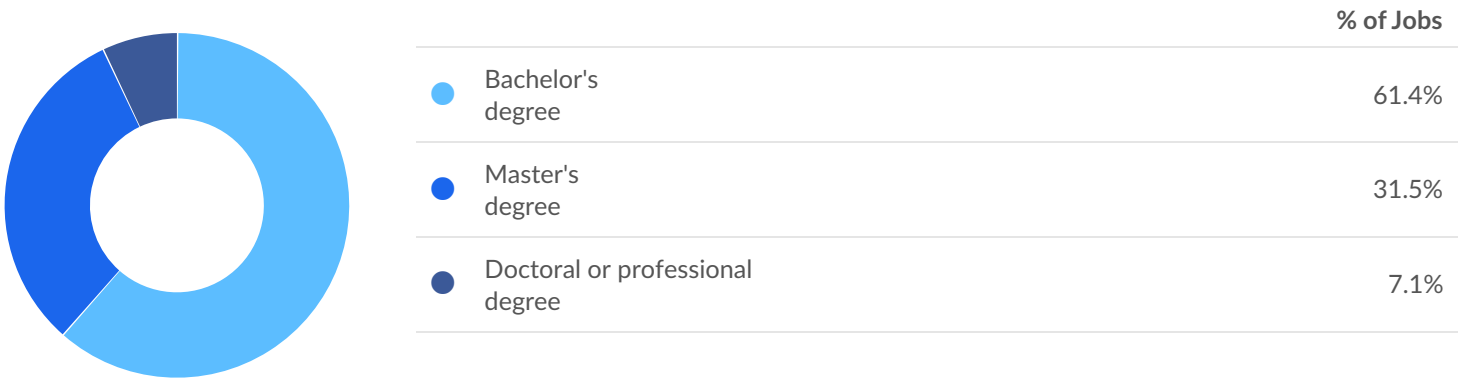|		% of Jobs	Jobs
●	14-18	0.0%	0
●	19-24	4.0%	45
●	25-34	30.7%	346
●	35-44	24.1%	271
●	45-54	20.3%	229
●	55-64	15.9%	179
●	65+	5.0%	56
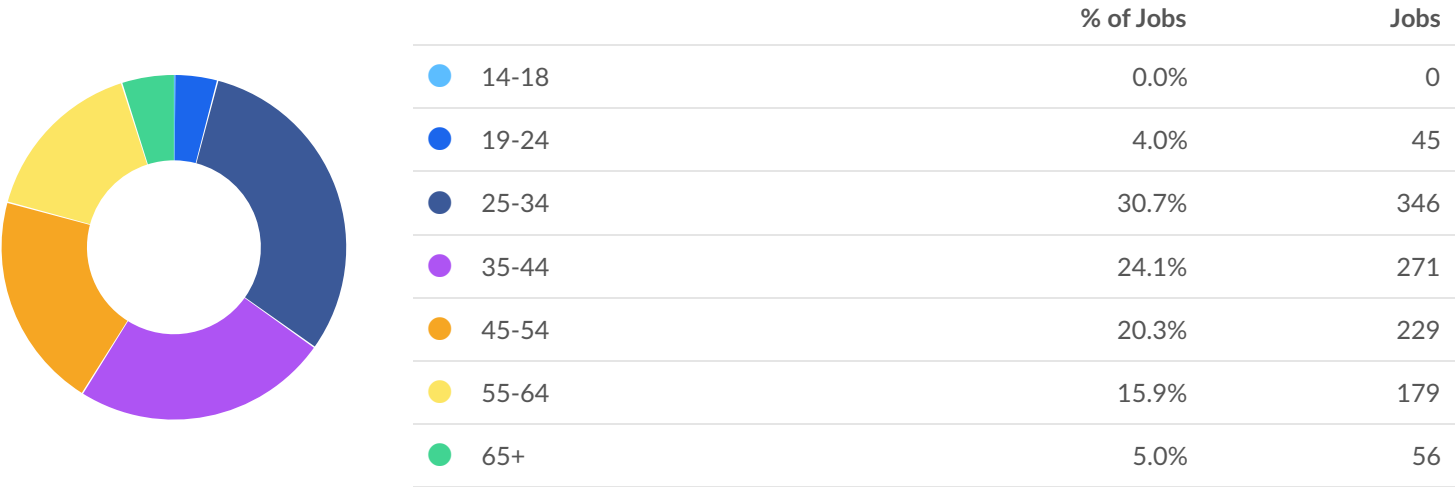
Occupation Race/Ethnicity Breakdown

		% of Jobs	Jobs
●	White	63.2%	712
●	Hispanic or Latino	15.8%	178
●	Asian	13.8%	156
●	Two or More Races	4.3%	48
●	Black or African American	2.3%	26
●	American Indian or Alaska Native	0.4%	5
●	Native Hawaiian or Other Pacific Islander	0.1%	1

Occupation Gender Breakdown

		% of Jobs	Jobs
●	Males	60.0%	676
●	Females	40.0%	450

National Educational Attainment

		% of Jobs
●	Bachelor's degree	61.4%
●	Master's degree	31.5%
●	Doctoral or professional degree	7.1%

Occupational Programs

14 Programs

Of the programs that can train for this job, 14 have produced completions in the last 5 years.

3,741 Completions (2023)

The completions from all regional institutions for all degree types.

110 Openings (2023)

The average number of openings for an occupation in the region is 257.

CIP Code	Top Programs	Completions (2023)	
45.1101	Sociology, General	1,128	
45.1001	Political Science and Government, General	777	
45.0601	Economics, General	531	
45.0101	Social Sciences, General	466	
40.0501	Chemistry, General	343	
03.0103	Environmental Studies	226	
03.0104	Environmental Science	74	
45.0701	Geography	68	
44.0501	Public Policy Analysis, General	63	
15.1501	Engineering/Industrial Management	25	

Top Schools	Completions (2023)	
San Diego State University	833	
University of California-San Diego	775	
California State University-San Marcos	507	
Palomar College	366	
Grossmont College	264	
Southwestern College	187	
Ashford University	161	
San Diego Miramar College	149	
University of San Diego	134	
San Diego Mesa College	97	

Appendix A

Environmental Scientists and Specialists, Including Health (SOC 19-2041):
Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or public health. Using knowledge of various scientific disciplines, may collect, synthesize, study, report, and recommend action based on data derived from measurements or observations of air, food, soil, water, and other sources. Excludes Zoologists and Wildlife Biologists (19-1023), Conservation Scientists (19-1031), Forest and Conservation Technicians (19-4071), Occupational Health and Safety Specialists (19-5011), Fish and Game Wardens (33-3031), and Forest and Conservation Workers (45-4011).

Sample of Reported Job Titles:
Environmental Analyst
Environmental Specialist
Regional Science Advisor
Policy Research Associate
Restoration Ecologist
Watershed Coordinator
Research Scientist
Researcher

Related O*NET Occupations:
Environmental Scientists and Specialists, Including Health (19-2041.00)
Climate Change Policy Analysts (19-2041.01)
Environmental Restoration Planners (19-2041.02)
Industrial Ecologists (19-2041.03)

Appendix B - Data Sources and Calculations

Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

Occupation Data

Emsi occupation employment data are based on final Emsi industry data and final Emsi staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates are also affected by county-level Emsi earnings by industry.

Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

Cost of Living Data

Lightcast's cost of living data is based on the Cost of Living Index published by the Council for Community and Economic Research (C2ER).

Lightcast Job Postings

Job postings are collected from various sources and processed/enriched to provide information such as standardized company name, occupation, skills, and geography.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.